The core program required of all students includes the following:

Five core courses + 8 various courses in stats, ethics, seminar and electives. The total number of units will vary depending on which courses are chosen.

1. **FN 640** Human Feeding (2 credits) F’12  *(every other F)*
2. **PSY 692** Models of Feeding Behavior (3 credits) S’13  *(every other S – may be repeated)*
3. **FN616** Special Topics in Ingestive Behavior (3 credits) S’14  *(every other S – may repeated)*
4. **FN617** Ingestive Behavior Seminar (1 credit) F’12  *(every other F – may be repeated)*
5. **FN 590** Obesity: Behavior, Physiology and Policy (2 credits) F’13  *(every other F)*

6. **Statistics: 6 credits** *(Suggested options include but are not limited to the following):*
   - **STAT 511** Statistical Methods (3 credits) F’12  *(F, S)*
   - **STAT 512** Applied Regression Analysis (3 credits) F’12  *(F, S, Sum)*
   - **STAT 514** Design of Experiments (3 credits) F’12  *(F, S)*

7. **Ethics: 1 course** *(Suggested options include but are not limited to the following):*
   - **GRAD 612** Responsible Conduct of Research (1 credit) F’12  *(F, S)*
   - **PSY 678** Variable title course (2 credits) S’13  *(S)*

8. **Seminars:** Presentation of a minimum of 2 seminars. Select two of the following options:
   - **FN 694** Introductory Foods & Nutrition Seminar (1 credit) S’13  *(S)*
   - **FN 695** Seminar (1 credit) S’13  *(F, S – may be repeated)*
   - **PSY 696** Seminar in Neurobiology, Endocrinology and Behavior (1 credit) F’12  *(F, S – may be repeated)*
   - **FS 684** Food Science Seminar (1 credit) F’12  *(F, S – may be repeated)*
   - **HK 668** Seminar in Exercise Physiology (3 credits) F’12  *(F, S, Sum – may be repeated)*

9. **Electives:** Select at least three of the following from this suggested list of electives. Other courses may be added to this list by committee recommendation to meet the needs of individual students.

IBRC Electives (grouped by topic) **see Notes**

**Nutrition and Metabolism**

- **ANSC 522** Monogastric Nutrition (3 credits) F’12  *(F)*
- **ANSC 595** Adipocyte Biology (2 credits) F’12  *(F)*
- **ANSC 620** Proteins and Amino Acids in Nutrition (3 credits) F’12  *(F)*
- **BCHM 667** Prokaryotic Metabolic Regulation (1 credit) F’12  *(typically S)*
- **FN 330** Diet Selection and Planning (3 credits) F’12  *(F)*
- **FN 520** Medical Nutrition Therapy (4 credits) S’13  *(S)*
- **FN 530** Public Health Nutrition (2 credits) S’13  *(S)*
- **FN 534** Human Sensory Systems and Food Evaluation (3 credits) S’13  *(S)*
• FN 580 Geriatric Nutrition (2 credits) S’13 (S)
• FN 590 Lipids and Cell Function (2 credits) F’12 (F)
• FN 590 Nutritional Epidemiology (1 credit) Sum ’12 (Sum)
• FN 590 Phytochemicals: Biochemistry and Physiology (2 credits) S’14 (every other S)
• FN/ANSC 605 Nutritional Biochemistry and Physiology I (4 credits) F’12 (F)
• FN/ANSC 606 Nutritional Biochemistry and Physiology II (2 credits) S’13 (S)
• FN/ANSC 607 Nutritional Biochemistry and Physiology III (2 credits) S’13 (S)
• FSCI 609 Food Lipids (1–3 credits) F’12 (F)
• FSCI 610 Food Proteins (3 credits) S’13 (S)
• FSCI 630 Carbohydrates (3 credits) F’12 (F)

Physiology and Neural Systems

• ANSC 514 Animal Biotechnology (3 credits) F’12 (F)
• BCHM 565 Biochemistry of Life Processes (2 credits) S’13 (S)
• BIOL 559 Endocrinology (3 credits) F’12 (F)
• BIOL 573 Molecular Biology Of Animal Cells (3 credits) F’12 (F)
• FN/ANSC 605 Nutritional Biochemistry and Physiology I (4 credits) F’12 (F)
• FN/ANSC 606 Nutritional Biochemistry and Physiology II (2 credits) S’13 (S)
• FN/ANSC 607 Nutritional Biochemistry and Physiology III (2 credits) S’13 (S)
• PSY512/BIOL562 Neural Systems (3 credits) S’13 (S)

Growth, Development and Aging

• ANSC 555 Animal Growth and Development (3 credits) S’13 (S)
• BIOL 444 Human Genetics (3 credits) F’12 (F)
• BIOL 481 Eukaryotic Genetics (3 credits) S’13 (S)
• BIOL 595 Developmental Biology (3 credits) F’12 (F)
• FN 580 Geriatric Nutrition (2 credits) S’13 (S)
• FN 590 Basic Bone Biology (0-4 credits) F’12 (F)
• PSY 367 Adult Development and Aging (3 credits) F’12 (F, S, Sum)
• PSY 535 Psychology of Death and Dying (3 credits) F’12 (typically S)
• PSY 560 Cognitive Functioning in Older Adults (3 credits) S’13 (S)
• VCS 650 Biology of Aging (1-3 credits) S’13 (S)

Behavioral Analyses Including Learning and Memory

• BIOL 580 Evolution (3 credits) S’13 (S)
• BIOL 592 The Evolution Of Behavior (3 credits) S’13 (S)
• BIOL 595 Animal Communication (3 credits) F’12 (F)
• PSY 333 Motivation (3 credits) S’13 (F, S, Sum)
• PSY 494 Introduction to Ethology (3 credits) F’12 (F)
• PSY 615 Introduction to Psychobiology (check with department)
• PSY 622 Animal Learning (3 credits) S’13 (F, S)
**Experimental Methods and Statistics**

- **AGEC 605**  Agricultural Price Analysis (3 credits) F’12  *(F)*
- **AGEC 632**  The Economics of Health Care and Health Policy (3 credits) F’12  *(F)*
- **AGEC 691**  Population Economics (3 credits) F’12  *(F)*
- **CPB 619**  Design, Conduct and Analysis of Clinical Trials (2 credits) S’13  *(typically F)*
- **CPB 623**  Microcomputer Applications in Clinical & Biomedical Research (3 credits) S’13  *(S)*
- **HK 611**  Data Analysis in Health and Kinesiology (3 credits) F’12  *(F)*
- **PSY 600**  Statistical Inference (3 credits) F’12  *(F, S)*
- **PSY 601**  Correlation and Experimental Design (3 credits) S’13  *(F, S)*
- **STAT 501**  Experimental Statistics I (3 credits) F’12  *(F, Sum)*
- **STAT 502**  Experimental Statistics II (3 credits) Sum’13  *(S, Sum)*
- **STAT 503**  Statistical Methods for Biology (3 credits) F’12  *(F, S)*
- **STAT 511**  Statistical Methods (3 credits) F’12  *(F, S)* [if not used as core requirement]
- **STAT 512**  Applied Regression Analysis (3 credits) F’12  *(F, S, Sum)* [if not used as core requirement]
- **STAT 514**  Design of Experiments (3 credits) F’12  *(F, S)* [if not used as core requirement]

**Additional Seminar Options**

( after satisfying two required seminars, additional seminars may be taken)

- **ANTH 609**  Seminar in Professionalism (2-3 credits) S’13  *(S – may be repeated)*
- **PSY 696**  Seminar in Neurobiology, Endocrinology, and Behavior (1 credit) S’13  *(F, S – may be repeated)*

**Additional Related Courses**

- **BIOL 585**  Ecology (3 credits) F’12  *(F)*
- **FN 534**  Human Sensory Systems and Food Evaluation (3 credits) S’13  *(S)*
- **PSY 633**  Special Lectures in Neuroscience (2 credits) F’12  *(F)*
- **PSY 635**  Ethical Issues in Biomedical Research  *(check with department)*
- **PSY 692**  Evolutionary Psychology (3 credits) F’12  *(F)*

**Notes:** Course offerings are subject to change.

F’12 = Course to be taught in Fall 2012

(S) = Course typically offered in Spring